

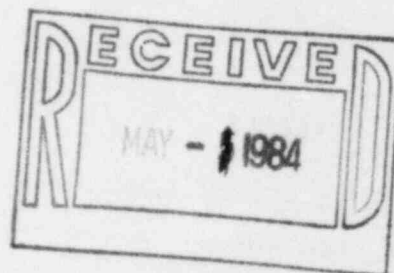


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April 25, 1984

W3K84-0939
Q-3-A35.07



Mr. John T. Collins
Regional Administrator, Region IV
U. S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76012

REFERENCE: Telecon C. Hooper (LP&L) and W. Crossman (NRC, Region IV) on
March 29, 1984

Dear Mr. Collins:

SUBJECT: Waterford SES Unit No. 3
Docket No. 50-382
Potentially Reportable Deficiency No. 162
"High Pressure Safety Injection Pumps (HPSI)"
Final Report

On March 29, 1984, problems with the gland studs and nuts on the subject pumps were reported as Potentially Reportable Deficiency No. 162. Further evaluation of the previously described condition indicates this condition is not considered reportable pursuant to 10CFR50.55(e).

EVALUATION

1. The nuts installed on all HPSI pump glands are the material required by the approved vendor drawing and are stamped as such.
2. Grade B7 studs, although they have less corrosion resistance than Grade B8M studs, are acceptable for the following reasons:
 - a. HPSI pumps are operated very infrequently (usually during ISI testing only).
 - b. The possibility of corrosion exists only if the gaskets at the pump glands were leaking. Routine plant maintenance keep this factor in check.

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EVALUATION (Continued)

2. c. The test data¹ indicates that corrosion of ASA 193 Grade B7 studs even in continuous contact with borated water at HPSI pump suction conditions would not result in sufficient metal wastage due to corrosion that could fail the studs in the 40 year lifetime.
- d. Grade B7 studs have much higher yield strength than Grade B8M.

Very truly yours,

Thomas F. Gerrets

T. F. Gerrets

Corporate Quality Assurance Manager

TFG:CNH:SSTG

cc: Director
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U. S. Nuclear Regulatory Commission
Washington, D.C. 20555
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¹ NRC Report NUREG/CR-2827 titled 'Boric Acid Corrosion of Ferritic Reactor Components' indicates an average corrosion rate of 4.6×10^{-3} inches/year in SA 193 B7 studs at 70°F for 5% boric acid concentration in water. At Waterford 3 HPSI pump suction fluid boric acid concentration of 1.2%, the corrosion rate will be even smaller.